

Appendix B

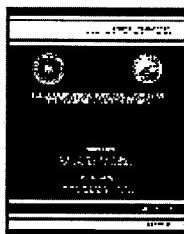
(Federal Standard 1037C, published August 7, 1996 – Definition of "Duty Cycle")



Federal Standard 1037C

Note: The updated version of this standard (*Telecom Glossary 2000*) is completed. Click [here](#) for more information.

Telecommunications: Glossary of Telecommunication Terms



Date of Publication: August 7, 1996

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duty cycle

duty cycle: 1. In an ideal pulse train, i.e., one having rectangular pulses, the ratio of the pulse duration to the pulse period. (188) Note: For example, the duty cycle is 0.25 for a pulse train in which the pulse duration is 1 μ s and the pulse period is 4 μ s. 2. The ratio of (a) the sum of all pulse durations during a specified period of continuous operation to (b) the total specified period of operation. 3. In a continuously variable slope delta (CVSD) modulation converter, the mean proportion of binary "1" digits at the converter output in which each "1" indicates a run of a specified number of consecutive bits of the same polarity in the digital output signal. (188) 4. In a periodic phenomenon, the ratio of the duration of the phenomenon in a given period to the period. Note: In a piece of electrical equipment, e.g., an electric motor, the period for which it may be operated without deleterious effects, e.g., from overheating.

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